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(54) Title: METHODS OF TREATING INVOLUNTARY FACIAL SPASMS AND FACIAL WRINKLES

(57) Abstract: The invention describes antibiotics, muscle relaxants and plant extracts that have neuromuscular blockade effects as well as methods of use thereof. These compounds can be used in the same clinical settings as botulinum toxin and may be used topically, thereby providing an advantage over botulinum toxin in terms of application and ease of use. The compounds can be used in pharmaceutical compositions for the treatment of involuntary muscle spasms and neuropathic pain and in cosmetic compositions for the treatment of facial wrinkles. Also provided are kits useful for therapeutic and/or cosmetic applications.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26676

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 6/00; 7/00
US CL : 424/401

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/401

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Database JPAB on WEST, NO. JP62016431A, 'Pharmaceutical antifungal composition'. 24 January 1987. see abstract.	1-3,6,8,20-22,26-28,31-33,37-40,43-45,53,54,69-71,75-77,80-83,86
Y	Database CAA on WEST, NO. CA1209043A, Smiley, 'Topical composition for treating herpes simplex infections'. 05 August 1986, see abstract.	1-3,9,10,20,26,31,36,56,57,68,69,74,75,80,81,86
Y	Database JPAB on WEST, NO. JP63253022A, 'Topical muscle relaxant preparations'. 08 April 1987. see abstract.	11,12,26,31,60,61,63,69,75,80,81
Y	Database SUAB on WEST, NO. SU1033138A, Kazakov et al, 'Cosmetic skin cream containing norkov fat'. 08 October 1980, see abstract.	17,20,26,31,35,48,69,75,80,81
Y	GB 894619, 09 September 1960, see entire document.	1,2,4,8,20,26,31,53,54,69,75,81

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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